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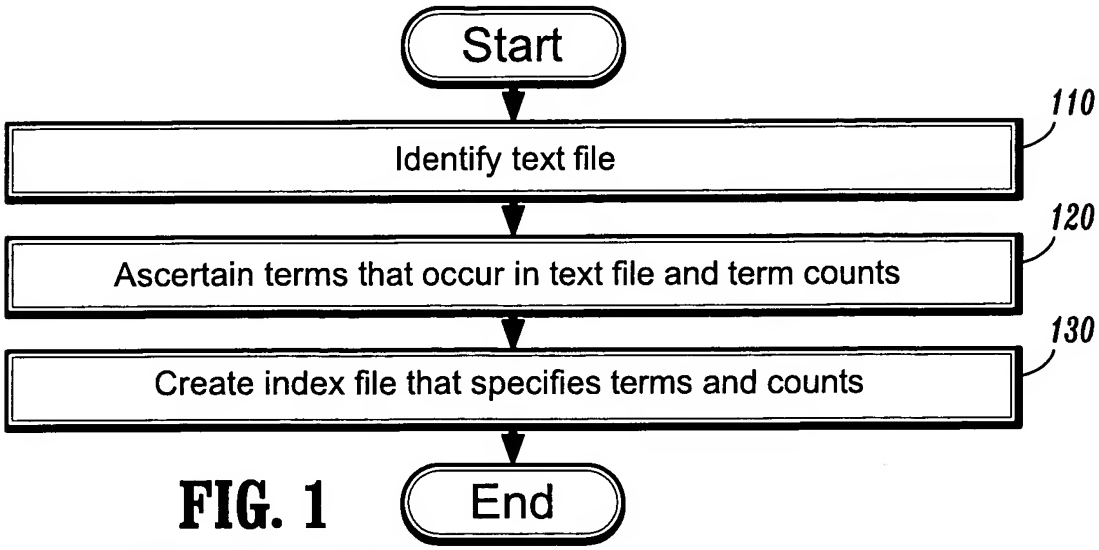


FIG. 1
(Prior Art)

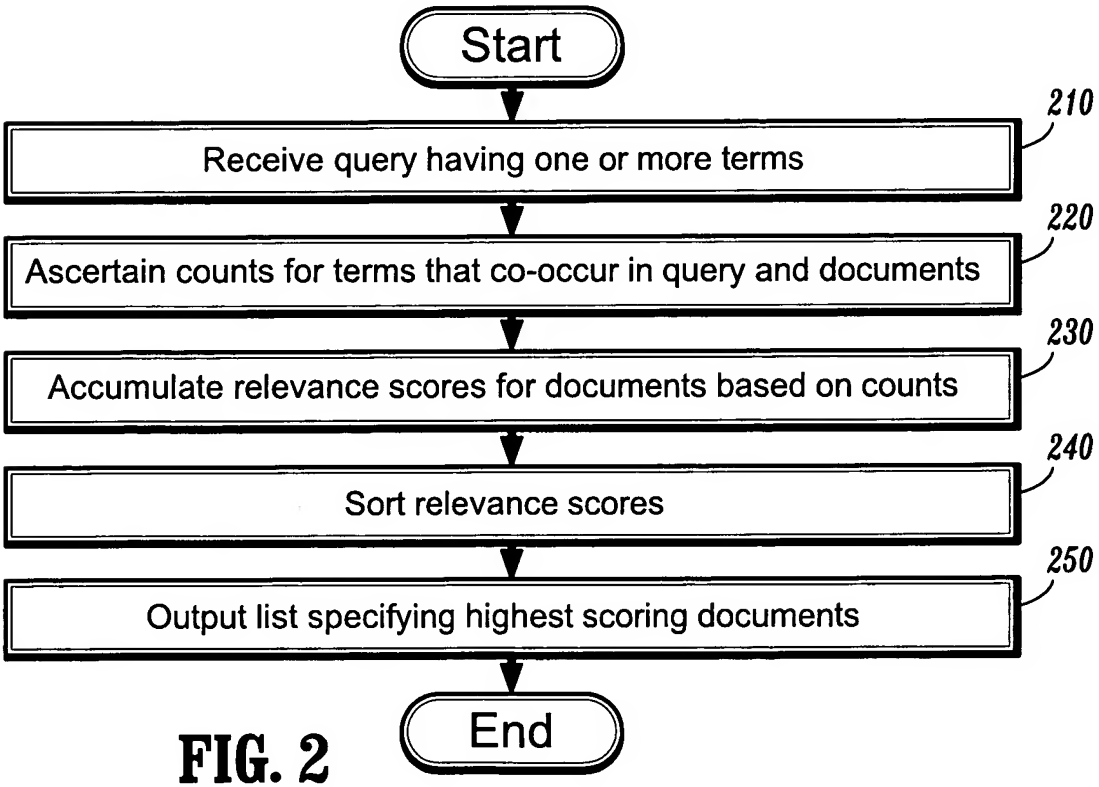


FIG. 2
(Prior Art)

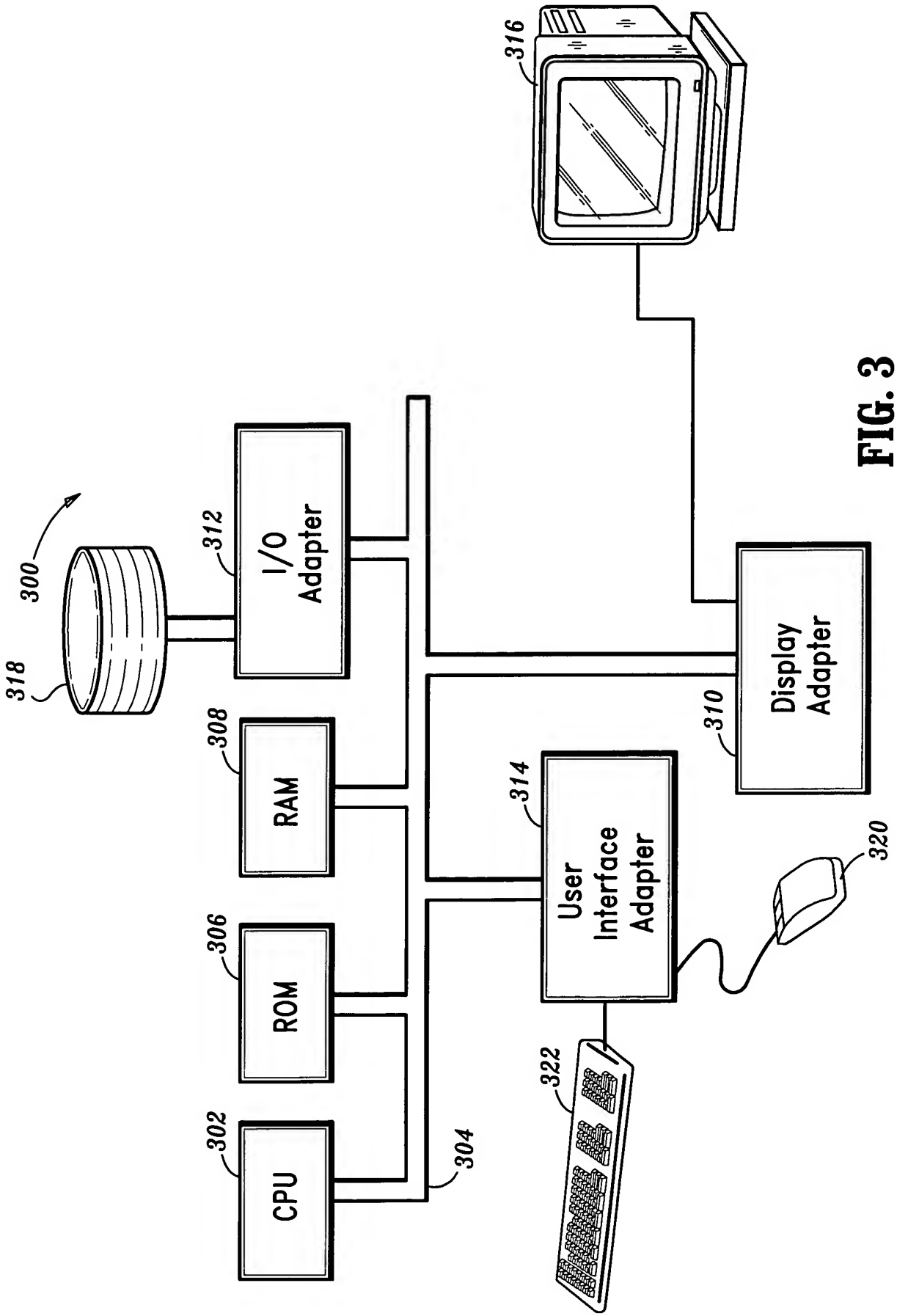

316
300
312
I/O Adapter
318
308
RAM
310
Display Adapter
314
User Interface Adapter
320
306
ROM
322
302
CPU
304

FIG. 3

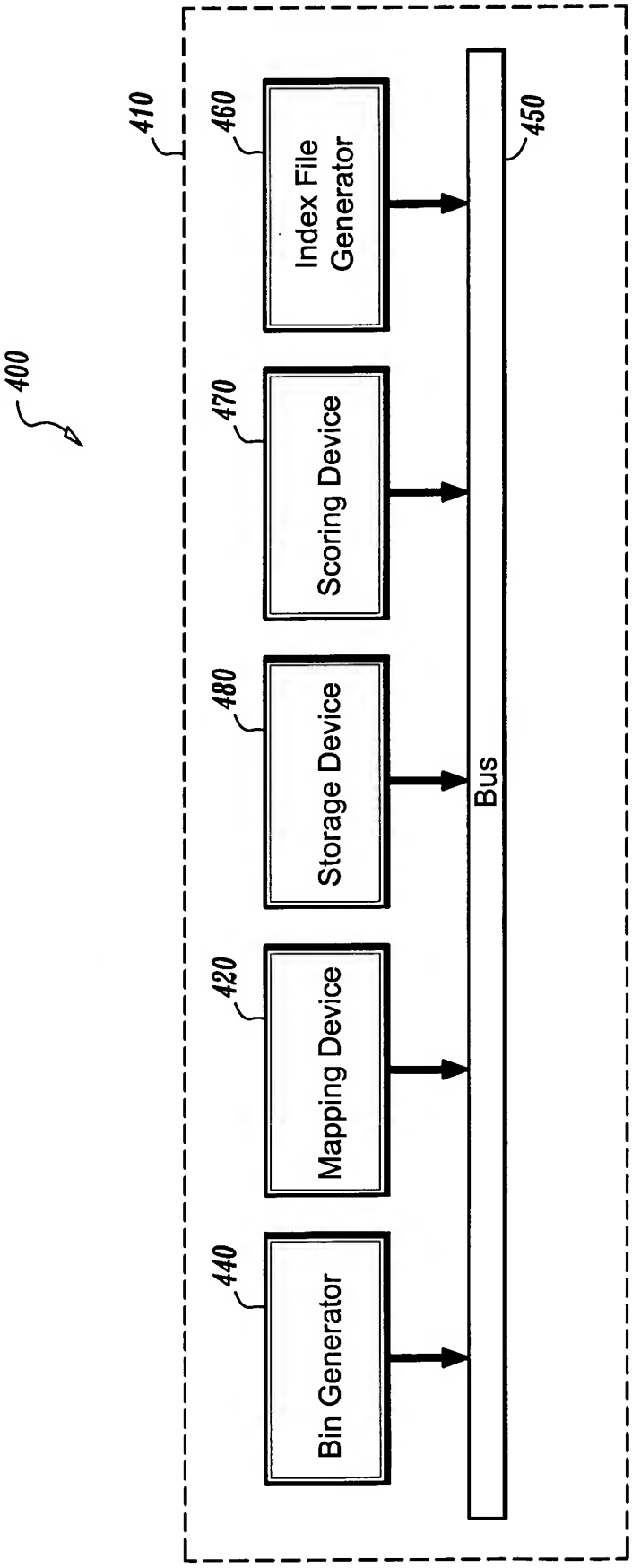

400
410
460
Index File Generator
450
470
Scoring Device
480
Storage Device
Bus
420
Mapping Device
440
Bin Generator

FIG. 4

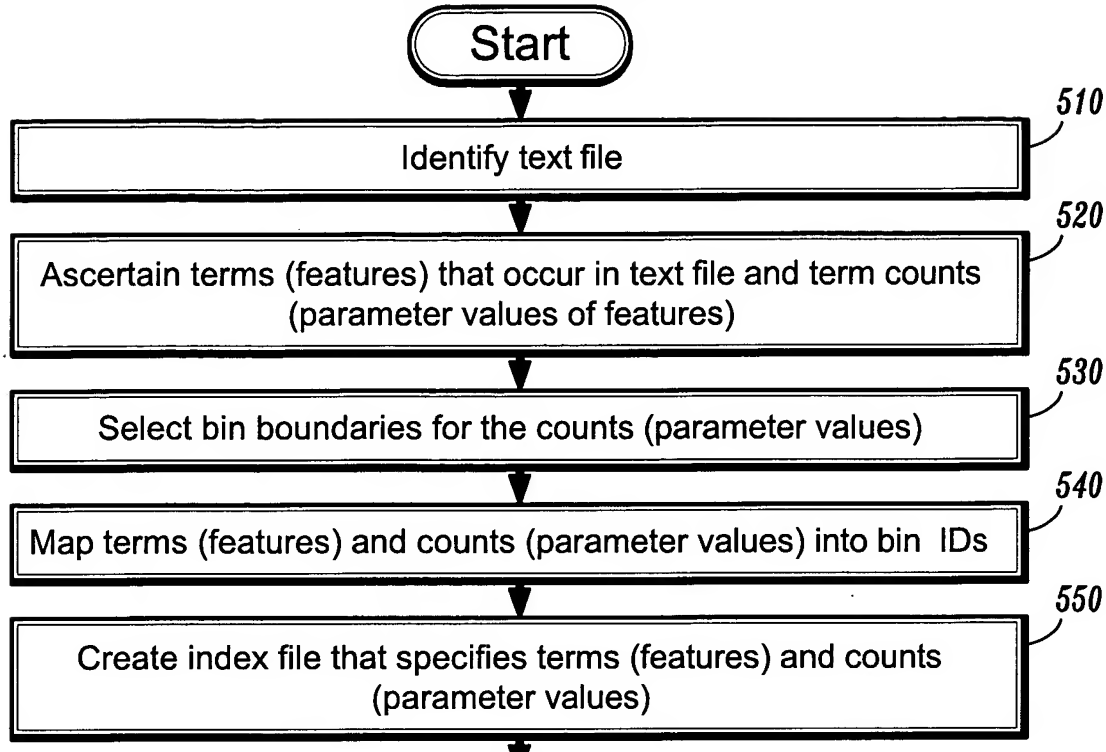

Start
Identify text file
510
Ascertain terms (features) that occur in text file and term counts (parameter values of features)
520
Select bin boundaries for the counts (parameter values)
530
Map terms (features) and counts (parameter values) into bin IDs
540
Create index file that specifies terms (features) and counts (parameter values)
550
End

FIG. 5

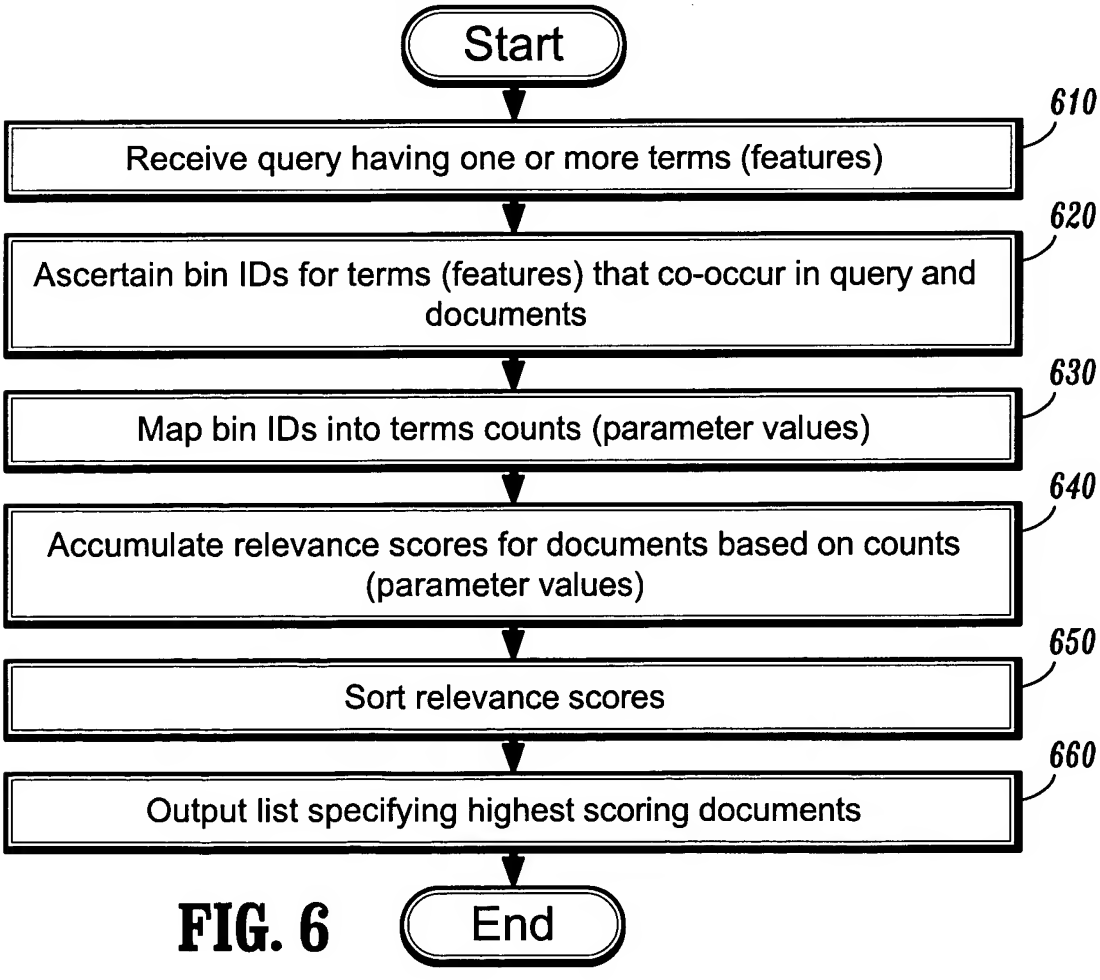

Start
Receive query having one or more terms (features)
610
Ascertain bin IDs for terms (features) that co-occur in query and documents
620
Map bin IDs into terms counts (parameter values)
630
Accumulate relevance scores for documents based on counts (parameter values)
640
Sort relevance scores
650
Output list specifying highest scoring documents
660
End

FIG. 6

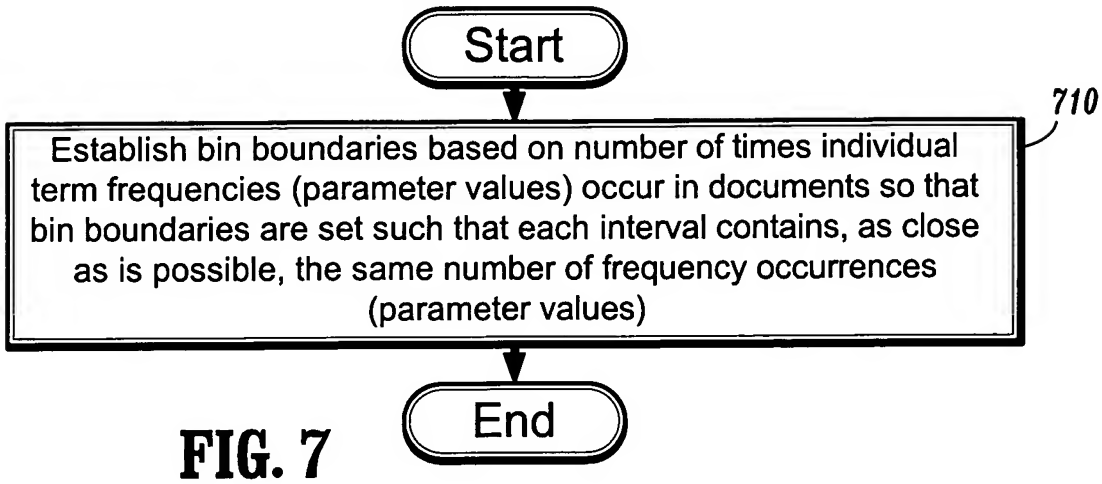


FIG. 7

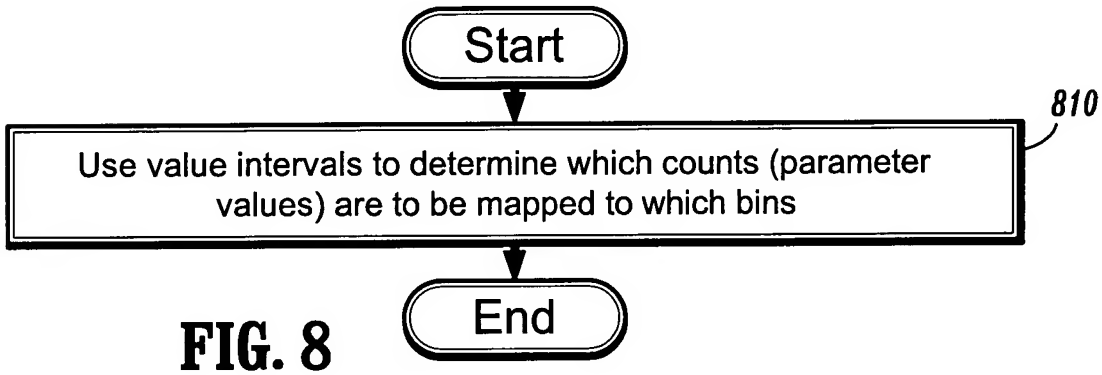


FIG. 8

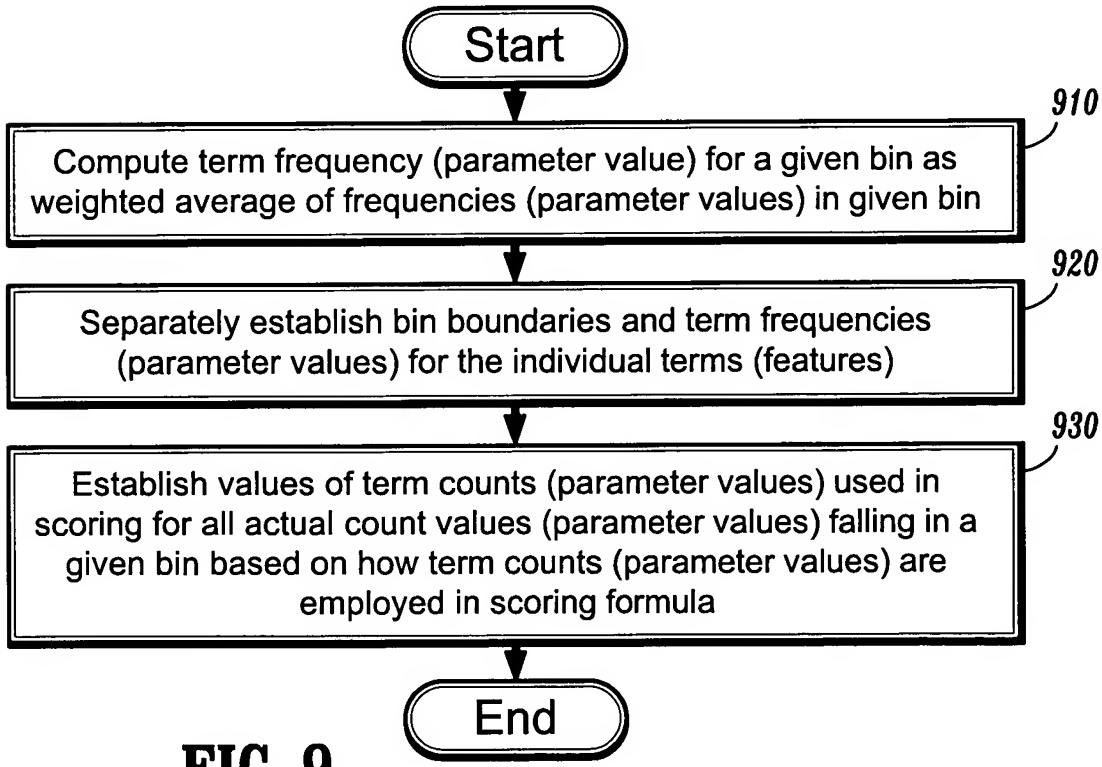
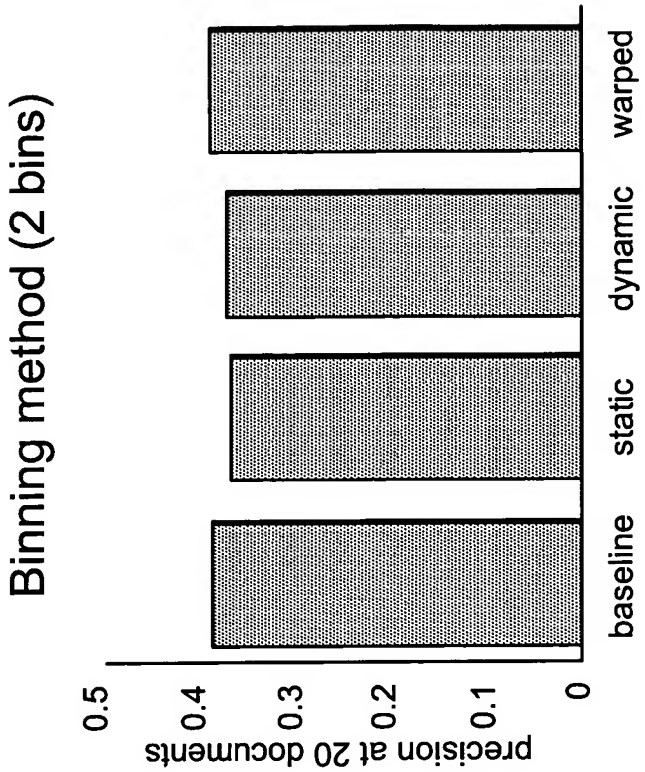


FIG. 9


Binning method (2 bins)
precision at 20 documents
0.5
0.4
0.3
0.2
0.1
0
baseline
static
dynamic
warped

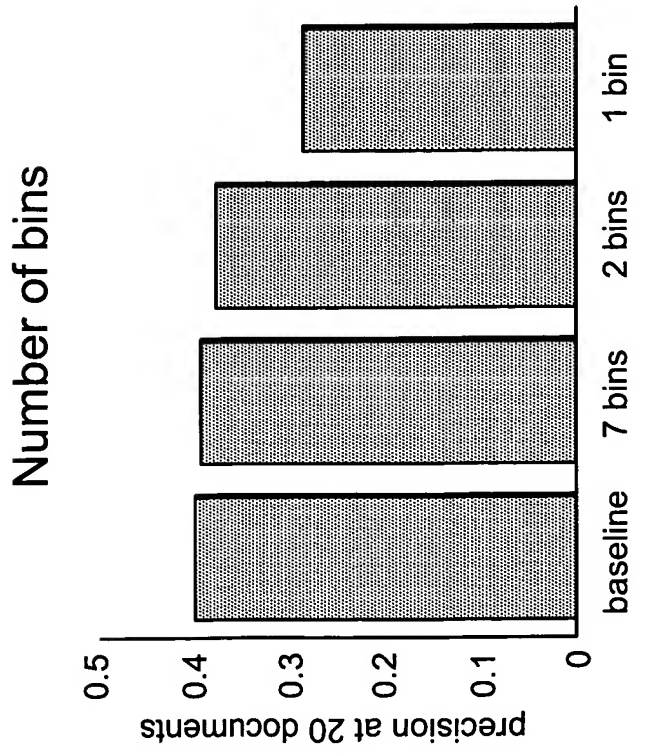

Number of bins
precision at 20 documents
0.5
0.4
0.3
0.2
0.1
0
baseline
7 bins
2 bins
1 bin

FIG. 10